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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/039,590	12/31/2001	Aaron M. Tsirkel	P11678	4021	
25694	7590 . 10/03/2003	·	EXAMINER		
INTEL CORPORATION			LIANG, REGINA		
P.O. BOX 53 SANTA CLA	26 ARA, CA 95056-5326	·	ART UNIT	PAPER NUMBER	
•			2674	,	
	•		DATE MAILED: 10/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Out								
•		Application	ı No.	Applicant(s)				
Office Action Summary		10/039,590		TSIRKEL ET AL.				
		Examiner		Art Unit				
		Regina Lia		2674				
Period for Reply	ING DATE of this communication ap	pears on the (cover sneet with the c	orresponaence ad	iaress			
THE MAILING D - Extensions of time mafter SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply within - Any reply received by	STATUTORY PERIOD FOR REPL ATE OF THIS COMMUNICATION. ay be available under the provisions of 37 CFR 1. IS from the mailing date of this communication. specified above is less than thirty (30) days, a reply is specified above, the maximum statutory period to the set or extended period for reply will, by statuty the Office later than three months after the mailing djustment. See 37 CFR 1.704(b).	136(a). In no even ply within the statute I will apply and will te, cause the applic	t, however, may a reply be timory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timel the mailing date of this co O (35 U.S.C. § 133).				
1) Responsi	ve to communication(s) filed on	·						
2a)☐ This actio	n is FINAL . 2b)⊠ T	his action is n	on-final.					
	application is in condition for allow accordance with the practice under				ne merits is			
	1-26 is/are pending in the applicatio	on.						
4a) Of the above claim(s) is/are withdrawn from consideration.								
	is/are allowed.							
6) Claim(s) 1-26 is/are rejected.								
7) Claim(s) _	7) Claim(s) is/are objected to.							
8) Claim(s) _	are subject to restriction and/	or election red	quirement.					
Application Papers								
•	cation is objected to by the Examin							
•	g(s) filed on is/are: a)□ acce		•					
• •	may not request that any objection to the		•					
	ed drawing correction filed on			ved by the Examin	er.			
If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner.								
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<u> </u>	.S.C. §§ 119 and 120 Igment is made of a claim for forei <u>c</u>	an priority und	or 25 U.S.C. & 110/a) (d) or (f)				
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14) Acknowledg	ment is made of a claim for domes	stic priority und	der 35 U.S.C. § 119(e	e) (to a provisiona	I application).			
	anslation of the foreign language pr gment is made of a claim for domes							
Attachment(s)								
	es Cited (PTO-892) son's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449) Paper No(s)	!	4) Interview Summary 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1-3, 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helms (US. PAT. NO. 5,952,992) in view of Blouin (US. PAT. NO. 5,850,205).

As to claim 1, Figs. 1 and 2 of Helms discloses a computer system comprising a photodetector or a light sensor (14), a display screen (12), a brightness of which is to be adjusted in
response to measuring ambient light using the light sensor. Helms does not disclose using a
camera as a light sensor to measure the ambient light. However, Blouin teaches a light sensor
for sensing the ambient light comprising a CCD (camera, see col. 3, lines 25-27). Thus it would
have been obvious to one of ordinary skill in the art at the time the invention was made to
modify Helms to use a CCD (camera) as a light sensor for sensing the ambient light as taught by
Blouin so as to provide a light weight and low cost sensing device, and reduce the overall cost of
the system since only one CCD is needed to perform dual functions e.g. light sensing and image
pick up function.

As to claims 2 and 3, Helms teaches increasing the brightness of the display screen if an increase in the ambient light, or decreasing the brightness of the display screen if the ambient light decreases (col. 1, lines 51-55).

Application/Control Number: 10/039,590

Art Unit: 2674

As to claim 5, Helms does not disclose decreasing the brightness of the display screen if the ambient light increases. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Helms to decrease the brightness of the display screen if the ambient light increased to save power.

As to claims 6, 7, Helms teaches the brightness control circuitry having a lookup table (col. 3, lines 44-50), which reads on a storage device storing measurement code and adjustment code to be executed by the computer system as claimed.

3. Claims 4, 8-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helms and Blouin as applied to claim 1 above, and further in view of Belhumeur et al (US. PUB. NO. 2002/0128060 hereinafter Belhumeur).

As to claims 10, 19, Helms as modified by Blouin does not disclosing using the camera to produce an image and enabling a brightness of the display screen to be adjusted in response to an analysis of the image. However, Belhumeur teaches an image system having a camera for producing an image, and a computer controlling the display to illuminate the display screen based on an analysis of the image (col. 2, section [0022]). Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Helms as modified by Blouin to have the camera produce an image and to control the brightness of the display screen in response to an analysis of the image as taught by Belhumeur to more accurately determine the ambient light condition by analyzing an image of the actual surrounding as opposed to using a single light sensor which is not indicative of the entire surrounding.

Application/Control Number: 10/039,590 Page 4

Art Unit: 2674

As to claims 4, 8, 13, 23, 24, Belhumeur teaches the ambient light is to be measured in a vicinity of a user.

As to claims 11, 20, Helms teaches increasing the brightness of the display screen in response to measuring an increase in the ambient light, or decreasing the brightness of the display screen in response to measuring a decrease in the ambient light (col. 1, lines 51-55).

As to claims 12, 21, Helms as modified does not disclose decreasing the brightness of the display screen if the ambient light increases, or increasing the brightness if the ambient light decreases. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Helms as modified to decrease the brightness of the display screen if the ambient light increases to save power or increasing the brightness of the display screen if the ambient light decreases to provide visibility.

As to claims 14, Helms teaches the brightness control circuitry having a lookup table (col. 3, lines 44-50), which reads on a storage instructions in the computer system to adjusting the brightness of the display screen as claimed.

As to claims 15, 16, 25, Belhumeur teaches controlling the illumination of the display screen including storing instructions in the computer system to analyze the image.

As to claims 17, 22, Belhumeur teaches the analysis of the image includes determining a user position in the image.

As to claim 9, 18, 26, Belhumeur teaches the camera providing a video imaging function.

Conclusion

Application/Control Number: 10/039,590 Page 5

Art Unit: 2674

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Katada (US. PAT. NO. 5,933,089) teaches a display control section generating the contrast adjustment signal corresponding to the received light quantity of the LCD detected by the light sensor.

Campo (US. PAT. NO. 5,910,653) teaches a display with ambient light detector.

Rai et al (US. PUB. NO. 2002/0050974) teaches a LCD having light collecting mechanism.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (703) 305-4719. The examiner can normally be reached on Monday-Friday from 9AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

REGINA LIANG PRIMARY EXAMINER ART UNIT 2674

RL 9/25/03